



GOVERNMENT COLLEGE OF ENGINEERING, JALGAON

(An Autonomous Institute of Government of Maharashtra)

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Name of Examination : **Summer 2021** - (Preview)

Course Code & Course Name : **ME453B - (Elective II)-Automobile Engineering - II**

Generated At : **19-04-2022 15:09:17**

Maximum Marks : **60**

Duration : **3 Hrs**

[Edit](#) [Print](#) [View Answer Key](#) [Close](#) **Answer Key Submission Type:** Marking scheme with model answers and solutions of numerical

Instructions:

1. Solve any five questions.
2. Illustrate your answer with suitable figures/sketches wherever necessary.
3. Assume suitable additional data; if required.
4. Use of logarithmic table, drawing instruments and non programmable calculators is allowed.
5. Figures to the right indicate full marks.

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|--|-----|
| 1) a) Explain with neat sketch the construction and working of IC engine piston? | [5] |
| b) Explain with neat sketch the operation of overhead valve mechanism in IC engine? | [7] |
| 2) a) Explain with neat sketch the air braking system of an automobile? Also mention its advantages and disadvantages. | [8] |
| b) With the help of table form mention at least two troubleshootings for hydraulic braking system giving symptom, cause and possible remedies. | [4] |
| 3) a) List out the types of oil filters used in automobile engine? Explain with neat sketch the construction and working of any one? | [7] |
| b) With the help of table form mention cooling system troubles and it's possible causes? | [5] |
| 4) a) Explain with neat sketch the construction and operation details of diesel fuel injection pump? | [8] |
| b) Write a note on governor of diesel engine. | [4] |
| 5) a) Explain with neat sketch the construction and working of overrun clutch drive in a starting motor? | [8] |
| b) Write a note on Lithium-ion battery. | [4] |
| 6) a) List out the different methods of battery testing? Explain any one method in detail? | [6] |
| b) Why generator is required in a car? Explain the working principle of D.C. generator? | [6] |

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